

Semionotiformes

Semionotiformes is an order of primitive, ray-finned, primarily freshwater fish from the Triassic to the Cretaceous. The best-known genus is Semionotus of Europe and North America.^[1]

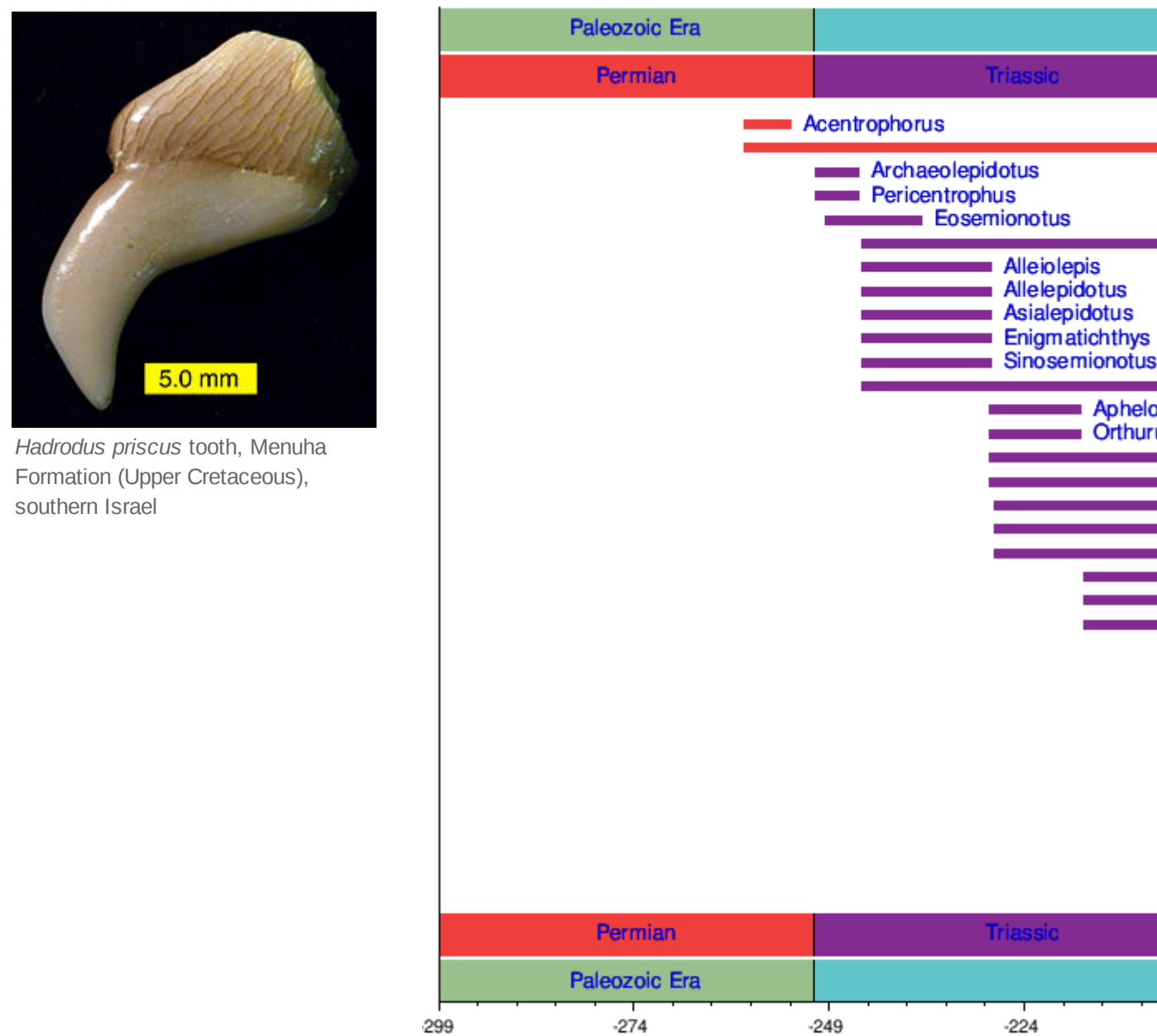
Classification

- **Order †Semionotiformes** Arambourg & Bertin 1958 sensu López-Arbarello 2012^{[2][3][4][5]}
 - Genus ?†Orthurus Kner 1866
 - Genus †Sangiorgioichthys Tintori & Lombardo 2007
 - Genus †Luoxiongichthys Wen et al. 2011
 - Genus †Aphanepygus Bassani 1879
 - Genus †Placidichthys Brito 2000
 - **Family †Pleurolepididae** Lütken 1871
 - Genus †Pleurolepis Agassiz 1863 non Quenstedt 1852
 - **Family †Macrosemiidae** Wagner 1860a corrig. Cope 1889 sensu Murray & Wilson 2009 [Macrosemii Wagner 1860a]
 - Genus †Eusemius Vetter 1881
 - Genus †Blenniomoëus Costa 1850 [Calignathus Costa 1853]
 - Genus †Enchelyolepis Woodward 1918
 - Genus †Palaeomacrosemius Ebert, Lane & Kolbl-Ebert 2016
 - Genus †Voelklichthys Arratia & Schultze 2012
 - Genus †Notagodus Agassiz 1833-1844 [Neonotagodus Bravi 1994]
 - Genus †Agoultichthys Murray & Wilson 2009
 - Genus †Histionotus Egerton 1854
 - Genus †Propterus Agassiz 1833-1844 [Rhynchoncodes Costa 1850]
 - Genus †Macrosemiocotzus González-Rodríguez, Applegate & Espinosa-Arrubarrena 2004
 - Genus †Legnonotus Egerton 1853
 - Genus †Macrosemius Agassiz 1833-1844
 - **Family †Semionotidae** Woodward 1890 sensu López-Arbarello 2012
 - Genus †Semionotus Agassiz 1832
 - Genus †Sargodon Plieninger 1847
 - Genus †Lepidotes Agassiz, 1832

<div>Semionotiformes</div> <div>Temporal range: Late Permian-Late Cretaceous</div> <div></div>
<div><div></div><div><i>Scheenstia maxima</i> from the Solnhofen Limestone, in South Germany</div></div>
<div>Scientific classification </div>
Kingdom: Animalia
Phylum: Chordata
Class: Actinopterygii
Subclass: Neopterygii
Order: †Semionotiformes Arambourg & Bertini 1958 sensu López-Arbarello 2012
<div>Families</div> <div><ul style="list-style-type: none">■ Callipurbeckiidae■ Macrosemiidae■ Pleurolepididae■ Semionotidae</div>
<div>Synonyms</div> <div>Macrosemiiformes Grande & Bemis 1998</div>

- Genus †*Scheenstia* López-Arbarelo & Sferco, 2011
- **Family †*Callipurbeckiidae*** López-Arbarelo 2012 [Paralepidotidae Hadding 1919 ex Lund 1920]
 - Genus †*Occitanichthys* López-Arbarelo & Wencker 2016
 - Genus †*Semiolepis* Lombardo & Tintori 2008
 - Genus †*Paralepidotus* Stolley 1919
 - Genus †*Macrosemimimus* Schröder, López-Arbarelo & Ebert 2012
 - Genus †*Tlayuamichin* López-Arbarelo & Alvarado-Ortega 2011
 - Genus †*Callipurbeckia* López-Arbarelo 2012

Timeline of genera



Hadrodus priscus tooth, Menuha Formation (Upper Cretaceous), southern Israel

References

1. Sepkoski, Jack (2002). "A compendium of fossil marine animal genera" (<http://strata.ummplsa.umich.edu/jack/showgenera.php?taxon=611&rank=class>). *Bulletins of American Paleontology*. **363**: 1–560. Retrieved 2011-05-17.
2. Haaramo, Mikko (2007). "*Ginglymodi – gars and relatives*" (<http://www.helsinki.fi/~mhaaramo/metazoa/deuterostoma/chordata/actinopterygii/ginglymodi/ginglymodi.html#semionotiformes>). *Mikko's Phylogeny Archive*. Retrieved 30 December 2016.
3. Nelson, Joseph S.; Grande, Terry C.; Wilson, Mark V. H. (2016). *Fishes of the World* (5th ed.). John Wiley & Sons. ISBN 9781118342336.
4. van der Laan, Richard (2016). "*Family-group names of fossil fishes*" (https://www.researchgate.net/publication/303911230_Family-group_names_of_fossil_fishes).
5. López-Arbarello, Adriana (2012). "*Phylogenetic Interrelationships of Ginglymodian Fishes (Actinopterygii: Neopterygii)*" (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394768>). *PLoS ONE*. **7** (7): e39370. doi:10.1371/journal.pone.0039370 (<https://doi.org/10.1371%2Fjournal.pone.0039370>). PMC 3394768 (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394768>). PMID 22808031 (<https://pubmed.ncbi.nlm.nih.gov/22808031>).

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